## INTERNATIONAL SEARCH REPORT

International application No.

PCT/SG03/00223

A.	CLASSIFICATION OF SUBJECT MATTER							
Int. Cl. 7:	H01L 21/4763, 21/285, 23/36, 23/367, 23/373, 31/024, 31/052, 31/18, H01S 5/024							
According to I	cording to International Patent Classification (IPC) or to both national classification and IPC							
В.								
Minimum docu	mentation searched (classification system followed by cla	ssification symbols)						
Documentation	searched other than minimum documentation to the exter	nt that such documents are included in the fields search	ned					
Electronic data base consulted during the international search (name of data base and, where practicable, search terms used) file dwpi: limit /ic h01l-021 or h01l-023 or h01l-031 or h01l-033 or h0 1s-005, gan or (gallium (w) nitride), sapphire or gaas or inp or si, epitax+ or epilayer?, copper or cu, adhesion (w) layer, seed (w) layer, (heat or thermal+) (s) (sink+ or spread+ or conduct+ or dissipat+ or remov+), laser or led? or (light (w) emitting), ohmic (w) contact, active (w) region, thick, electroplat+ or electrodeposit+, lift (w) off, (host or temporary or remov+) (2d) substrate								
C.	DOCUMENTS CONSIDERED TO BE RELEVANT							
Category*	Citation of document, with indication, where appr	opriate, of the relevant passages	Relevant to claim No.					
A	US 6562648 B1 (WONG et al.) 13 May 2003 Column 4, lines 3–17; figures 1 <i>a</i> –1 <i>g</i>		, , , , , , , , , , , , , , , , , , ,					
A	US 2003/0064535 A1 (KUB et al.) 3 April 20 Page 2, paragraphs [0032]–[0035]; figures 10							
A	US 6448102 B1 (KNEISSL et al.) 10 Septem Column 2, lines 5–38; figures 11 <i>a</i> –11 <i>f</i>	iber 2002						
X F	urther documents are listed in the continuation	of Box C X See patent family annual	ex					
"A" docume which is relevance "E" earlier a	A" document defining the general state of the art which is not considered to be of particular relevance  E" and not in conflict with the application but cited to understand the principle or theory underlying the invention document of particular relevance; the claimed invention cannot be							
"L" docume claim(s) publicat reason (	when the document is taken alone document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)  when the document is taken alone document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art							
"P" docume	on or other means ont published prior to the international filing tlater than the priority date claimed							
	al completion of the international search	Date of mailing of the international search report	Decanna					
		Authorized officer						
AUSTRALIAN PATENT OFFICE PO BOX 200, WODEN ACT 2606, AUSTRALIA B-mail address: pct@ipaustralia.gov.au		RAJEEV DESHMUKH						

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	f	CT/SG03/00223
C (Continua	tion). DOCUMENTS CONSIDERED TO BE RELEVANT	
Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 6210479 B1 (BOJARCZUK et al.) 3 April 2001 Column 3, line 18-column 4, line52; figures 1-6	
A	EP 1326290 A2 (XEROX CORPORATION) 9 July 2003 Abstract; figure 2	
E, A	US 6627921 B2 (WONG et al.) 30 September 2003 Column 4, lines 10–23; figures 1 <i>a</i> –1 <i>g</i>	٠.

## INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No.

PCT/SG03/00223

This Annex lists the known "A" publication level patent family members relating to the patent documents cited in the above-mentioned international search report. The Australian Patent Office is in no way liable for these particulars which are merely given for the purpose of information.

	t Document Cited in Search Report			Pate	ent Family Member		
US	6562648	ЛР	2002076523	US	2003122141	-	
US	2003064535			-			
US	6448102	JР	2000196197	US	6365429		
US	6210479	JР	10270712	ЛР	2000252224	Љ	2002198539
		US	5946551	US	5981970	US	6344660
		US	6344662				
EP	1326290	CA	2414325	ЛР	2003234542	US	6455340
US	6627921	JР	2002076523	US	6562648	US	2003122141
							END OF ANNE